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Notice of Allowability	Application No.	Applicant(s)	
	10/727,768	MARSHALL, DANIEL R.	
	Examiner	Art Unit	
	Hoon Song	2882	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. A This communication is responsive to <u>response filed on 1/21/2005</u> .			
2. The allowed claim(s) is/are <u>1-28 and 30-37</u> .			
3. The drawings filed on 04 December 2003 are accepted by the Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 			
Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• • •	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary Paper No./Mail Dat		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance
of Biological Material	9. Other		

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DETAILED ACTION

Allowable Subject Matter

Claims 1-28 and 30-37 are allowed over prior art.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1-9, 19-20 and 32-37, the prior art fails to teach an x-ray generating apparatus having an emitter formed on a first semiconductor structure to emit electrons and the electrons travel in a path in a space between the first semiconductor structure and a second semiconductor structure which spaced apart from the first semiconductor structure as claimed in independent claims 1 and 32.

Regarding claims 10-18 and 30-31, the prior art fails to teach an x-ray generating apparatus having an electron emitter and an electron accelerator, wherein both the emitter and accelerator are formed on a semiconductor structure as claimed in independent claims 10 and 30.

Regarding claims 21-25, the prior art fails to teach a method of generating x-rays by activating an emitter on a first semiconductor structure to emit electrons and directing the electrons along a path between the first semiconductor structure and a second semiconductor structure onto a target to cause the target to generate x-rays as claimed in independent claim 21.

Regarding claim 26-28, the prior art fails to teach a method of generating x-rays by activating an emitter on a semiconductor structure and accelerating the electrons traveling in a path by an accelerator formed on the semiconductor structure as claimed in independent claim 26.



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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494. The examiner can normally be reached on 8:30 AM - 5 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HKS

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